

## CLAIMS:

1. A pulse generator comprising a series coupling of delay elements every two consecutive delay elements being coupled in a plurality of coupling points, the series coupling of delay elements having a first end and a second end coupled to a first signal and a second signal, respectively, the first and second signals having a same frequency and being  
5 mutually phase-shifted, the pulse generator being characterized in that it further comprises a zero-crossing detector coupled to two mutually different coupling points for generating an output pulse a duration determined by a ratio between a number of delay elements between the two different coupling points and a total delay of the series coupling of delay elements.
- 10 2. A pulse generator as claimed in claim 1, wherein the first signal and the second signal are generated by an oscillator coupled to a phase-shifter.
3. A pulse generator as claimed in claim 1, wherein the delay elements comprise  
15 equal-value resistor means.
4. A pulse generator as claimed in claim 3, wherein the first signal and the second signal are mutually shifted in quadrature signals.
5. A pulse generator as claimed in claim 4, wherein the mutually shifted in  
20 quadrature signals are generated by a quadrature oscillator.
6. A pulse generator as claimed in any of the preceding claims, wherein the zero-crossing detector is a latch.